

## Ford County

### Estimated Economic Impact of Agriculture, Food, and Food Processing Sectors

6/11/2018

Using the most recent IMPLAN data available (2016) adjusted for 2018, 23 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Ford County economy.<sup>1</sup>

These 23 sectors have a total direct output of approximately **\$4.45 billion** and support **6,488 jobs** in Ford County. Running the model for all 23 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Ford County Economy						
Impact Type <sup>2</sup>	Employment	% Employment	Total Value Added <sup>3</sup>	Total Value Added % of Gross Regional Product <sup>4</sup>	Output <sup>5</sup>	Output % of Gross Regional Product
Direct Effect	6487.7	28.64%	\$718,627,477	38.37%	\$4,450,577,292	237.66%
Indirect Effect	2030.8	8.97%	\$163,681,692	8.74%	\$315,324,553	16.84%
Induced Effect	1915.7	8.46%	\$129,980,057	6.94%	\$232,799,055	12.43%
Total Effect	10434.2	46.07%	\$1,012,289,226	54.06%	\$4,998,700,900	266.93%

As shown in the above table, agriculture, food, and food processing sectors support **10,434 jobs**, or **46.07%** of the entire workforce in the county. These sectors provide a total economic contribution of approximately **\$5.00 billion**, roughly **266.93% of the economy**.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 23 agriculture, food, and food processing sectors is approximately **\$1.01 billion**, or **54.06% of the GRP**. This indicates that personal income, business income, and taxes generated by these sectors account for **54.06% of the total economy**.

The following tables document the top industries affected by employment and output, as well as a listing of all industries that were analyzed.

<sup>1</sup> Article on building a contribution analysis in IMPLAN that avoids double counting:

[http://www.implan.com/index.php?option=com\\_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70](http://www.implan.com/index.php?option=com_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70)

<sup>2</sup> Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

<sup>3</sup> Value added = labor income + indirect business taxes + other property type income.

<sup>4</sup> GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

<sup>5</sup> Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the animal, except poultry, slaughtering sector is the top employer with **5,071 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Ford County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment		
Sector	Total Employment	Total Output
Animal, except poultry, slaughtering	5,070.6	\$3,667,035,466
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	677.0	\$226,803,889
Wholesale trade	433.2	\$98,788,618
Truck transportation	342.8	\$49,705,002
Farm machinery and equipment manufacturing	238.0	\$111,790,609
Limited-service restaurants	232.7	\$18,062,188
Full-service restaurants	168.7	\$7,517,979
Services to buildings	149.1	\$7,605,114
Support activities for agriculture and forestry	139.1	\$8,132,873
Nitrogenous fertilizer manufacturing	117.7	\$159,962,662

The animal, except poultry, slaughtering sector directly contributes approximately **\$3.67 billion** to the Ford County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output		
Sector	Total Employment	Total Output
Animal, except poultry, slaughtering	5,070.6	\$3,667,035,466
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	677.0	\$226,803,889
Nitrogenous fertilizer manufacturing	117.7	\$159,962,662
Farm machinery and equipment manufacturing	238.0	\$111,790,609
Other animal food manufacturing	74.3	\$102,291,994
Wholesale trade	433.2	\$98,788,618
Grain farming	90.7	\$88,055,872
Flour milling	41.8	\$58,925,778
Truck transportation	342.8	\$49,705,002
Owner-occupied dwellings	0.0	\$41,043,885

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Ford County economy.

<b>All Agriculture, Food, and Food Processing Sectors</b>		
<b>Sector</b>	<b>Total Employment</b>	<b>Total Output</b>
Oilseed farming	3.5	\$9,271,072.54
Grain farming	90.7	\$88,055,871.52
Vegetable and melon farming	1.1	\$294,589.94
Fruit farming	0.3	\$29,641.33
Greenhouse, nursery, and floriculture production	4.2	\$709,926.50
Cotton farming	1.0	\$346,347.25
All other crop farming	26.8	\$5,222,676.84
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	677.0	\$226,803,889.29
Poultry and egg production	0.0	\$38,185.21
Animal production, except cattle and poultry and eggs	16.5	\$4,655,568.34
Commercial logging	2.1	\$98,426.84
Commercial hunting and trapping	4.4	\$89,059.30
Other animal food manufacturing	74.3	\$102,291,993.55
Flour milling	41.8	\$58,925,777.90
Animal, except poultry, slaughtering	5070.6	\$3,667,035,465.76
Bread and bakery product, except frozen, manufacturing	19.1	\$2,276,628.24
Frozen cakes and other pastries manufacturing	1.2	\$188,147.74
Tortilla manufacturing	6.3	\$1,336,772.55
Distilleries	5.3	\$5,951,794.30
Nitrogenous fertilizer manufacturing	117.7	\$159,962,662.24
Farm machinery and equipment manufacturing	238.0	\$111,790,608.83
Veterinary services	34.6	\$3,166,293.77
Landscape and horticultural services	51.1	\$2,035,892.30

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Ford County, the retail sector was omitted.